

Fig. I.1A

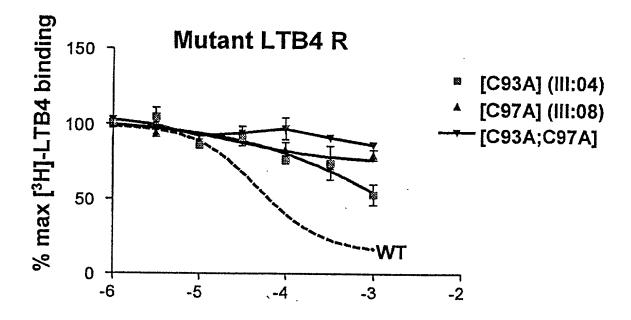


Fig. I.1B

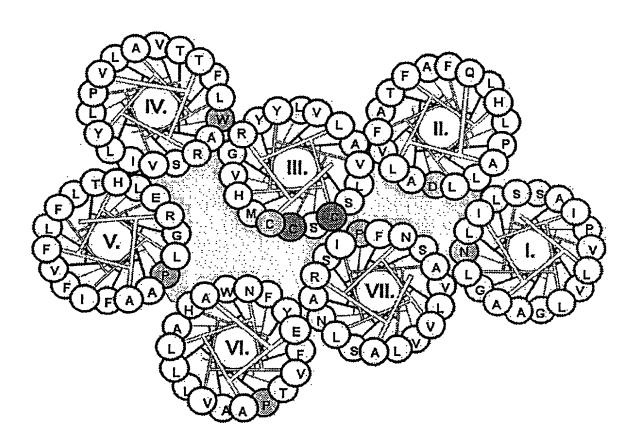


Fig. I.1C

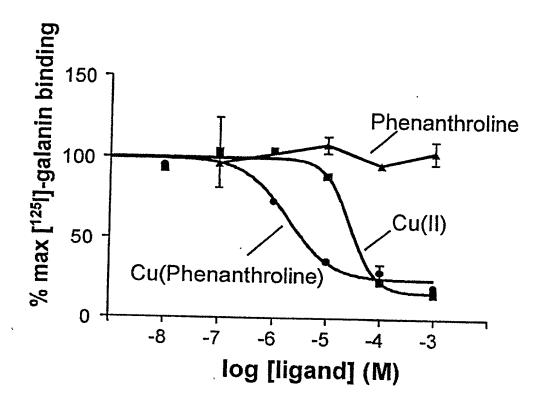


Fig. I.2A

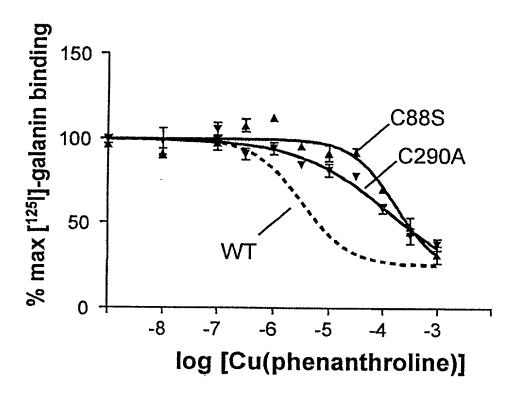


Fig. I.2B

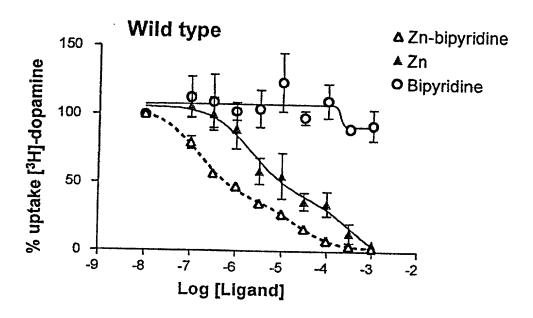


Fig. I.3A

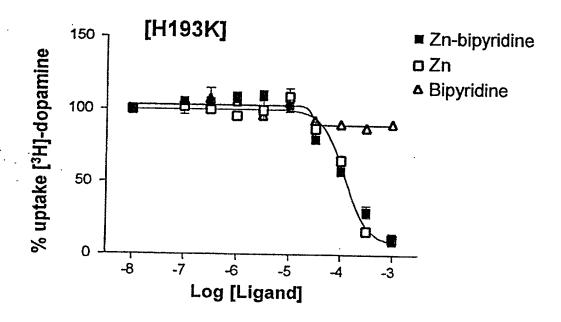


Fig. I.3B

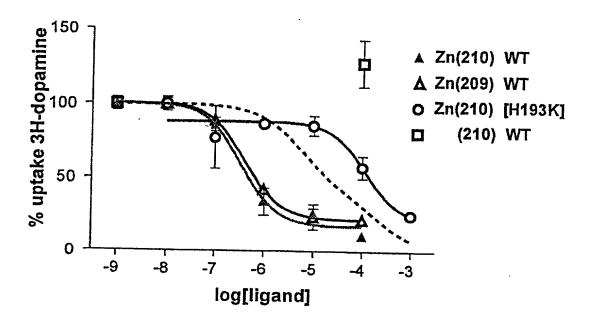


Fig. I.3C

Fig. II.1A

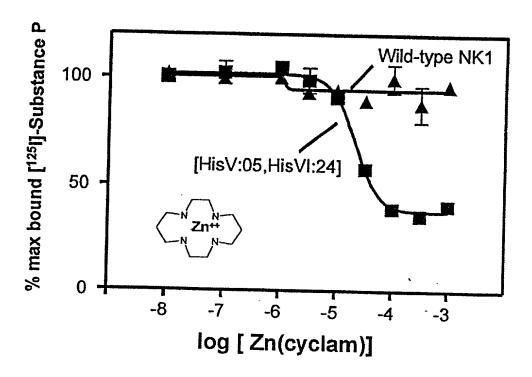


Fig. II.1B

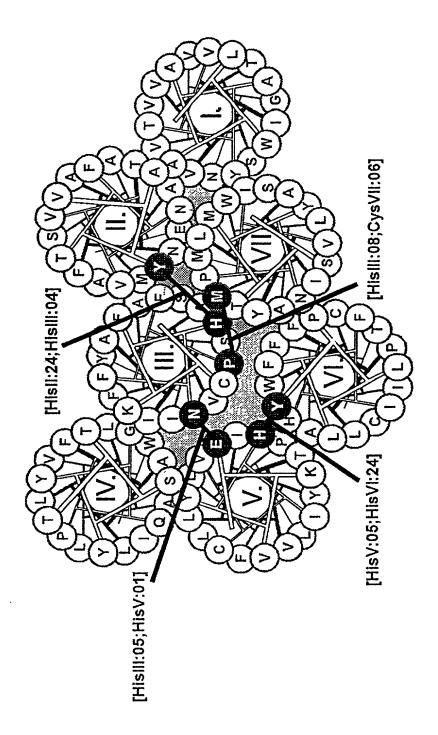


Fig. II.1C

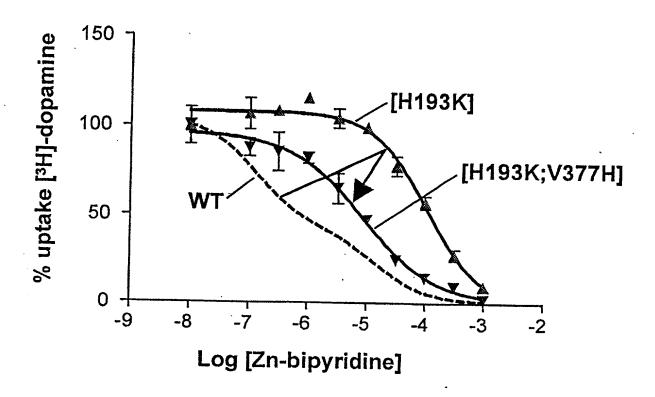


Fig. II.2A

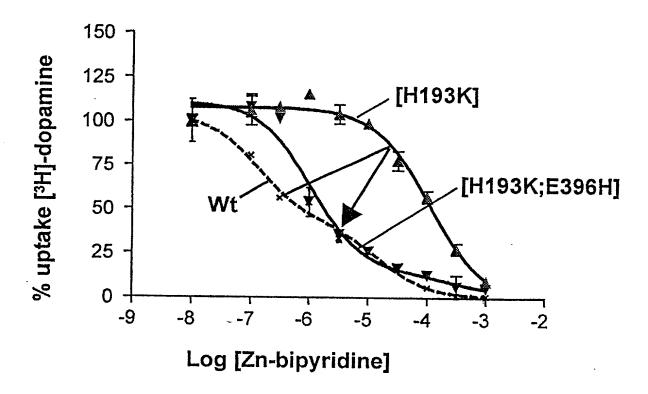


Fig. II.2B

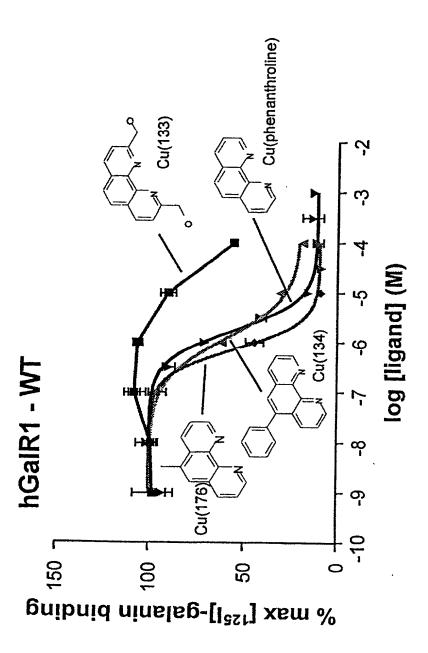


Fig. III.1A

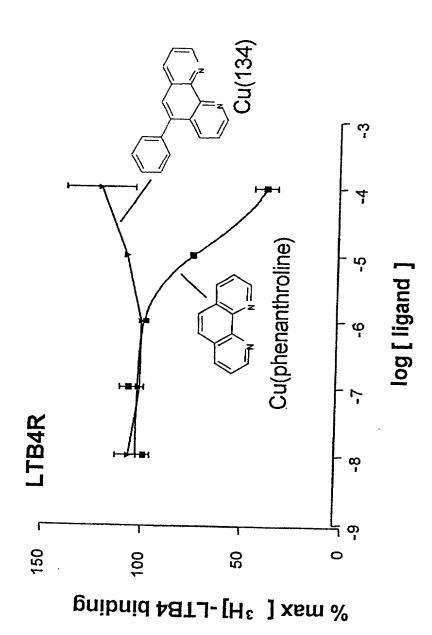


Fig. III.1B

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# [HisV:05;HisVI:24]-NK1

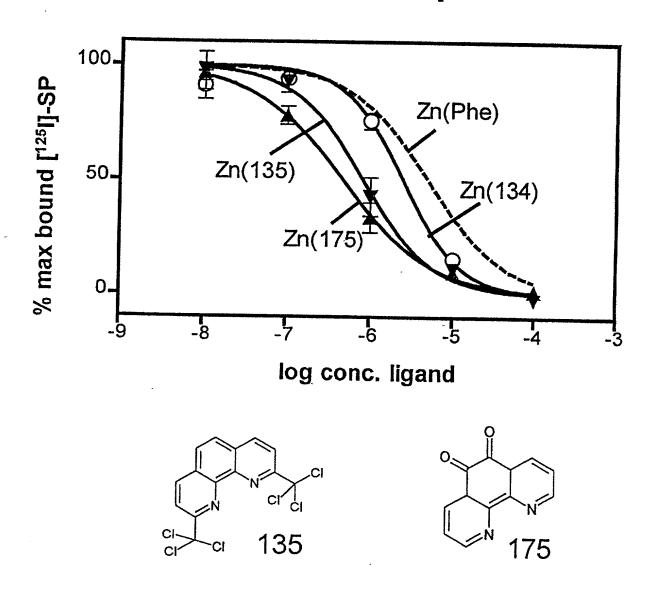


Fig. III.2A

# [HisIII:08;CysVII:06]-NK1

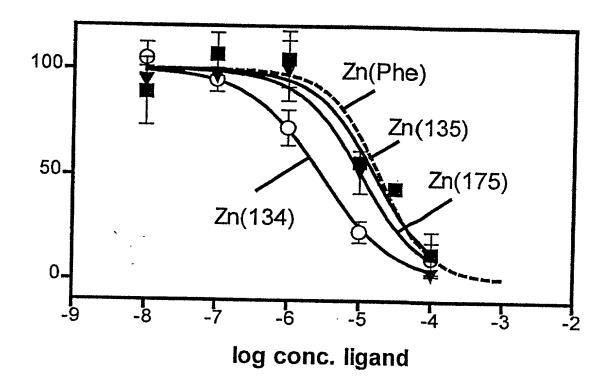


Fig. III.2B

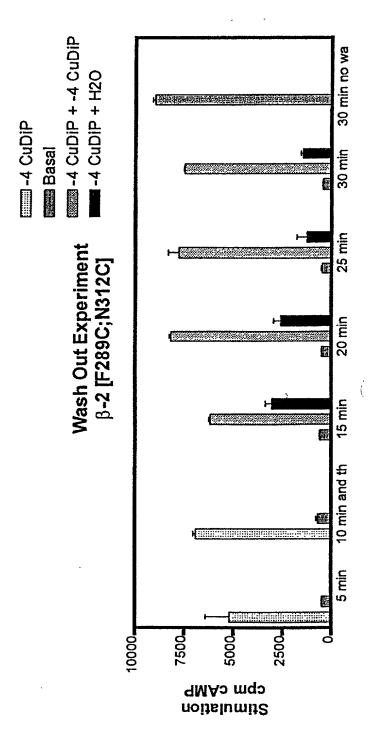


Fig. III.3A

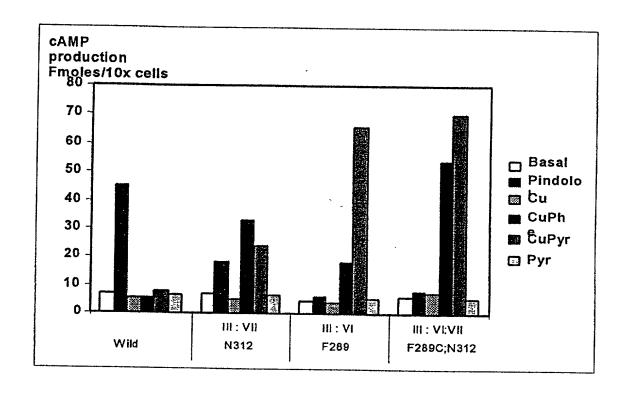


Fig. III.3B

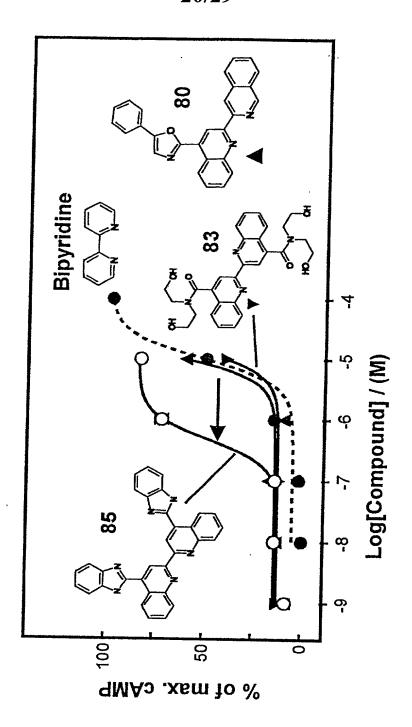


Fig. III.3C

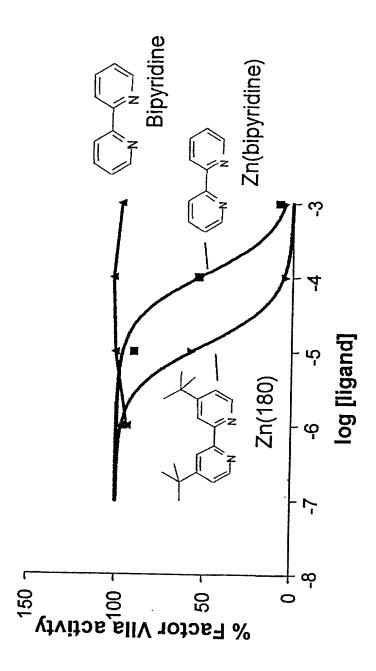


Fig. III.4A

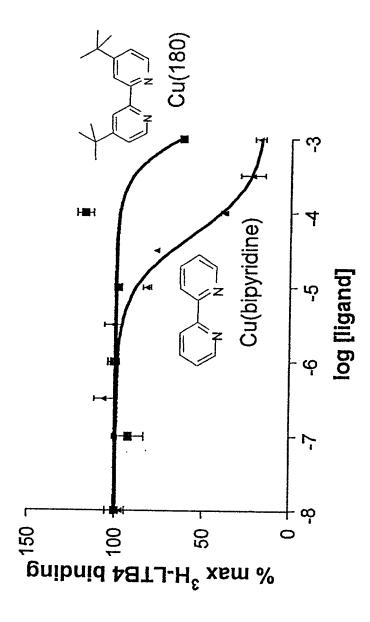


Fig. III.4B

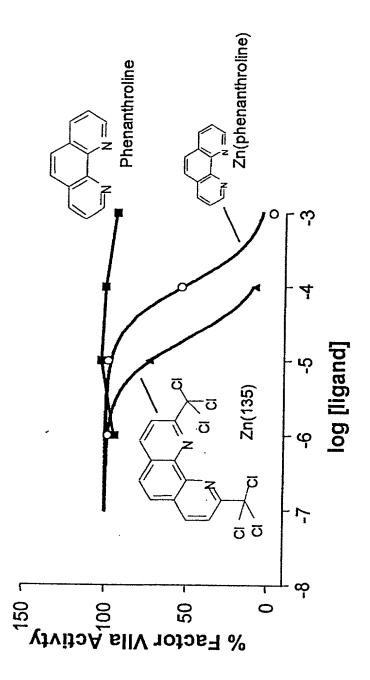


Fig. III.4C

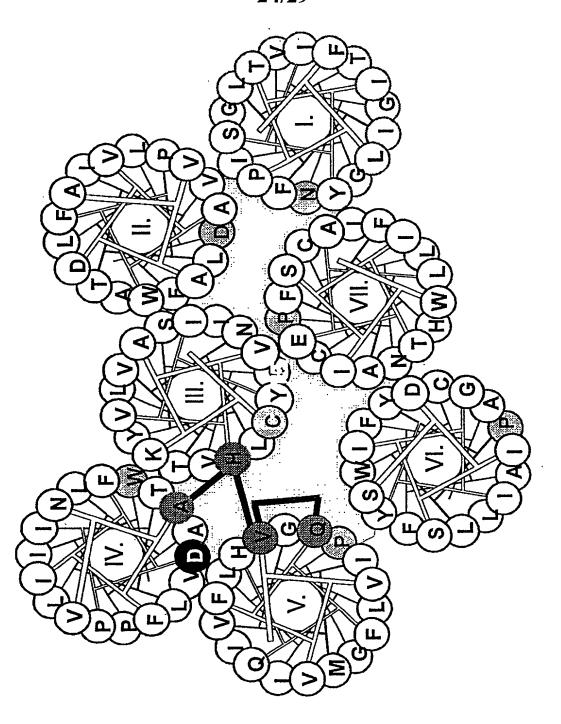


Fig. III.5

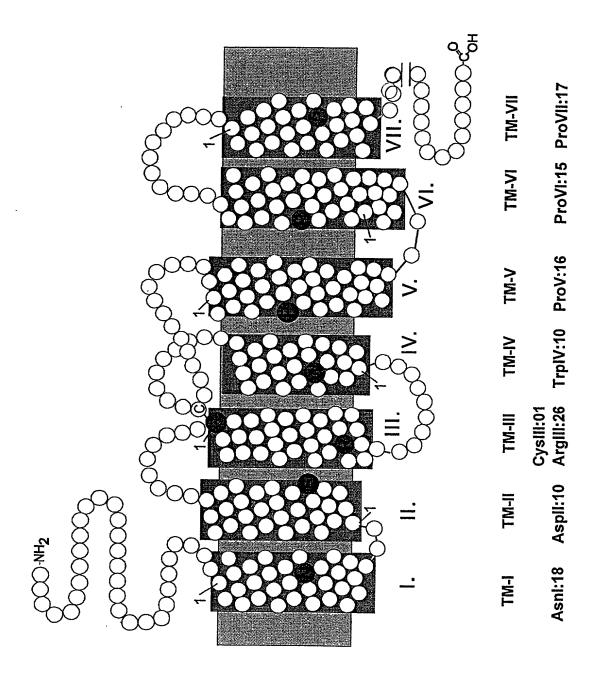


Fig. IV

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	20127			
	Metal ion	Log K <sub>1</sub>	Log K <sub>2</sub>	Log K <sub>3</sub>
	Co <sup>2+</sup>	6.4	11.3	16.6
	Co <sup>2+</sup> Ni <sup>2+</sup> Zn <sup>2+</sup> Cu <sup>2+</sup>	5.8 7.0 5.3 8.1	11.3 13.9 9.6 13.6	16.0 16.6 13.3 17.0
	Zn <sup>2+</sup>	2.8	5.2	
	Cu <sup>2+</sup>	5.1		
	Zn <sup>2+</sup>	7.6	12.1	
	Zn <sup>2+</sup> Cu <sup>2+</sup>	5.0 7.4	9.4 13.8	12.7
	Zn <sup>2+</sup> Cu <sup>2+</sup>	6.6	12.6 15.0	18.3 20.0
N N	Zn <sup>2+</sup> Cu <sup>2+</sup>	4.1 5.2	7.7	19.1
HO-N H <sub>2</sub> N NH <sub>2</sub>	Zn <sup>2+</sup>	4.1	7.8	9.5

Figur V

Compound Structure		Name	Provider
62	N=N=N=N=N=N=N=N=N=N=N=N=N=N=N=N=N=N=N=	1,10-Phenanthroline	Sigma
92	N = N	Dipyridine	Sigma
09		Cyclam	Aldrich
80		2-(isoquinoline-3-yl)-4-(5-phenyl-oxazol-2-yl)- quinoline	ChemDiv Inc.
83	}{}  }  }  }	2,2'-di(4-(N,N-(2- hydroxyethyl)carboxamide)quinoline)	ChemDiv Inc.

Fig. VI

	1	T	T T	l
ChemDiv Inc.	Sigma-Aldrich	Sigma-Aldrich	Sigma-Aldrich	Aldrich
2,2'-di(4-(benzimidazol-2-yl)-quinoline)	2,9-dimethanol-1,10,phenanthroline	5-phenyl-1,10-phenanthroline	2,9-bis(trichloromethyl)-1,10-phenanthroline	1,10-phenanthroline-5,6-dione
85 CAND	133 Ho OH	134	135	175 °°°

Fig. VI

176		5-methyl-1,10-phenanthroline	Sigma
180	H <sub>3</sub> C CH <sub>3</sub>	4,4'-DI-tert-butyl-2,2'-dipyridyl	Aldrich
183		Dipyrido[3,2-a:2',3'-c]phenazine hemhydrate	ABCR GmbH & Co
209	N N OH	2-pyridylamidoxime	7TM Pharma
210	N OH,	-сн <sub>3</sub> 2-pyridylamidoxime, O-acetyl	7TM Pharma

Fig. VI